

SPECIFICATIONS

for

Medusa Waterproofed
White Portland Cement

Medusa White Portland Cement
Medusa Waterproofing
(*Powder and Paste*)

Medusa Waterproofed
Gray Portland Cement
Medusa Cement Paint



THE SANDUSKY CEMENT CO.
Cleveland, Ohio, U. S. A.

Medusa White Portland Cement

(Plain or Waterproofed)

A pure white non-staining Portland cement guaranteed to pass the standard specifications of the American Society for testing materials and the U. S. Government specifications. Medusa Waterproofed White Portland Cement is our standard White Portland Cement with the correct amount of Medusa Waterproofing powder ground in in process of manufacture. This product is rapidly superseding the plain white for all uses. In cast stone work it dries off immediately after a rain instead of remaining dark and unsightly. In stucco or cement plaster it gives a waterproof, dampproof, impervious and non-absorbent plaster, a superior material for the facing of swimming pools. In cement mortar it gives waterproof mortar joints, eliminating "weeping joints."

Medusa Waterproof Cement Paint

Medusa Waterproof Cement Paint gives a dense, hard, Permanent coating of Portland Cement for rendering dampproof existing damp basements, etc., of concrete, brick, tile or masonry, filling cracks and freshening the appearance of soiled and discolored stucco and concrete. Medusa Cement Paint is much less expensive in first cost than oil paint and seldom or never requires renewal. Adheres well to iron and steel, preventing rust. Made in White, Gray Cream-Buffer and other colors. Half the cost of oil paint, adheres perfectly even to wet surfaces. Unharmful by water. Permanent and easy to apply. Write for circular.

Medusa Waterproofing

(Powder and Paste)

Makes waterproof and dampproof concrete.

Medusa Waterproofing Powder is to be thoroughly mixed dry with cement before the addition of sand and water, thus becoming an inseparable part of the concrete.

Medusa Waterproofing Paste is identical with the Powder in resulting composition and waterproofing effect, but is in semi-liquid form to be mixed with the gauging water.

The addition of Medusa Waterproofing does not affect strength, setting, hardening or color of the resultant concrete.

Medusa Waterproofed Gray Portland Cement

Medusa Waterproofed Gray Portland Cement is our standard Gray Portland Cement with the correct amount of Medusa Waterproofing powder ground in in process of manufacture. In foundations it results in waterproof and dampproof walls and floors. In concrete blocks it produces impervious, dense, waterproof and dampproof blocks which dry off immediately after a rain instead of remaining dark and unsightly. For concrete tanks, reservoirs, swimming pools, cisterns, etc., it is essential.

SPECIFICATIONS

NOTE:—HYDRATED LIME

We recommend the addition of hydrated lime to mixtures for Stucco, Cement—Plaster and Mortar only. Exactly 10% by weight of the cement of lime should be added ($\frac{1}{3}$ of the volume of cement) and no more. Hydrated Lime is an inert filler, is not a waterproofing and even a small amount appreciably reduces the strength of the cement.

Non-Staining Portland Cement Mortar

**For Backing and Setting Limestone,
Terra Cotta and Face Brick**

1 part Medusa Waterproofed White Cement,
3 parts fine white sand,

Non-Staining Portland Cement Mortar

For Backing and Setting Granite

1 part Medusa Waterproofed White Cement,
3 parts white granite sand or Ottawa Silica Sand
of Ottawa Silica Co., Ottawa, Ill.

Non-Staining Portland Cement Mortar

For Setting Marble, Glazed Tile, Etc.

1 part Medusa Waterproofed White Cement,
3 parts ground marble.

Extra precaution should be taken in the selection
of white sand, ground marble, etc., for all
non-staining work, as some contain a large
percentage of organic substances which dis-
color.

Waterproofed Portland Cement Mortar

For Laying up Brick or Stone

1 part portland cement,
Add to the cement 2% Medusa Waterproofing.
(Or specify Medusa Waterproofed Gray Cement)
3 parts clean sand,
Mix thoroughly.

All brick and stone must be thoroughly wetted before laying up and care should be taken to cover well all sides with a generous supply of the mortar.

Waterproofed Portland Cement Plaster

For Interior and Exterior of Foundation Walls, Floors, Etc.

1 part portland cement,
Add to the cement 2% Medusa Waterproofing,
(Or specify Medusa Waterproofed Gray Cement)
2 parts fine, clean sand.
Mix thoroughly.
Write for special circular: "Damp Basements"

Waterproofed Concrete

6 in. or under in thickness, 2% Medusa Waterproofing.
Over 6 in. thick, 1½% Medusa Waterproofing.

Interior White Cement Plaster

On Tile, Brick or Metal Lath

For Wainscoting, Bathrooms, Laundries, Toilets, Etc.

For Metal Lath 1 lb. of first quality long hair with the fiber well combed out shall be added to the sack of cement.

The base must be soaked with water to saturation before applying the stucco or cement plaster. Avoid excess trowelling. The finish coat must be kept moist continually for a week.

BASE COAT—

1 part Portland Cement (2% Medusa Waterproofing, 2 lbs. to the sack of cement),
3 parts clean, sharp sand.

SECOND COAT—

¾ in. thick,
1 part Medusa Waterproofed White Cement,
2½ parts ground marble (Tuckahoe or equal).

FINISH COAT—

1 part Medusa Waterproofed White Cement,
2½ parts ground marble.

White Portland Cement Plaster For Swimming Pools, Tanks, Dairies, Etc.

FIRST COAT—

1 part Portland Cement (2% Medusa Waterproofing, 2 lbs. to the sack of cement),
3 parts clean, sharp sand.

FINISH COAT—

$\frac{1}{2}$ in. to 1 in. thick,
1 part Medusa Waterproofed White Cement.
 $2\frac{1}{2}$ parts ground marble. Or $2\frac{1}{2}$ parts white sand.

CAUTION

Do not attempt to put a cement surface coat on a gypsum plaster base. So called "patent plaster" or hard wall plaster consists chiefly of calcined gypsum (plaster), to which portland cement will not adhere, but will split or scale off. For white or gray portland cement surface coat, the base or rough coat must consist of portland cement mortar.

Stucco

On Metal Lath, Hollow Tile, Brick, Etc.

For Metal Lath 1 lb. of first quality long hair with the fiber well combed out shall be added to the sack of cement.

The base must be soaked with water to saturation before applying the stucco or cement plaster. Avoid excess trowelling. The finish coat must be kept moist continually for a week.

BASE COAT—

1 part portland cement (2% Medusa Waterproofing, 2 lbs. to the sack of cement),
3 parts clean, sharp sand.

WHITE SECOND AND THIRD FINISH COATS—

1 part Medusa Waterproofed White Cement,
 $2\frac{1}{2}$ parts Tuckahoe (or equal) ground marble.

LIGHT BUFF FINISH—

1 part Medusa Waterproofed White Cement,
1 part ground marble,
2 parts white sand, and mortar color.

BUFF FINISH—

1 part Medusa Waterproofed White Portland Cement,

2 parts white sand, and mortar color.

SPARKLING FINISH—Scrub the final surface with a solution of Muriatic Acid 1 part and water 10 parts, using a stiff brush. Thoroughly rinse with clean water.

CAUTION

The base must be thoroughly wet before applying cement plaster. Finished coat must be kept damp for at least one week.

Avoid plastering on walls exposed to the hot sun or warm winds. Cover with burlap or canvas, frequently sprinkled, whenever practicable.

BOND

To insure bonding to smooth surfaces, wet thoroughly and dust on neat cement.

TROWELING

Excessive troweling is often the cause of discolorations and hair-cracks on flat or smooth surfaces.

**CEMENT PLASTERING ON
CONCRETE**

To make plaster stick to the body, all percolation of water through the walls must be prevented by pumping or drainage from outside until the plaster has set and hardened. The walls must be well soaked with water, and dusted with neat cement just in advance of the plastering. Plaster with mortar of Medusa Portland Cement 1, sand 1½, containing Medusa Waterproofing to the amount of 2% of the cement used—or 8 pounds to the barrel.

Catalogs with complete specifications, details, illustrations, tests and testimonials, will be sent on request.

Colored Concrete

Any desired color concrete can be produced by mixing dry mineral colors with Medusa White Portland Cement. The following are suggested, the amounts named being added to each sack of White Portland Cement:

For Gray— $\frac{1}{2}$ to 1 lb. lamp black.

For Blue—5 to 10 lbs. ultramarine blue.

For Dull Red—5 to 10 lbs. red oxide of iron.

For Bright Red—5 to 10 lbs. mineral turkey red.

For Brown—5 to 10 lbs. metallic brown (oxide).

For Yellow or Buff—5 to 10 lbs. yellow ochre.

For Black— $\frac{1}{2}$ to 1 lb. carbon black.

Artificial Stone

Statuary, Garden Furniture, Balustrades, Steps, Curbing, Block Facing—use Medusa Waterproofed White Portland Cement. Impervious and non-staining. Dries off instantly after a rain instead of remaining dark and unsightly.

BRILLIANT EFFECTS can be obtained from all dry mix castings, by spraying with a very fine spray the entire surface as soon as it is taken from the mould. The film of cement on the face is thus carried into the concrete, leaving the sparkling effect of the aggregate in sight.

This method causes no loss of strength and avoids the use of a Muriatic Acid wash.

To Prevent Hair-Cracks

Hair-cracks in cement work result from greater shrinkage in the rich, wet surface than in the body of the work. This can be prevented by keeping the work covered and *moist*, and protected from the sun and wind, for sufficient time to allow the surface to thoroughly harden. This may require from one to four weeks, according to weather and character of the work. German specifications for ornamental concrete castings require that the work shall be kept moist, at uniform temperature, and protected from weather, for at least four weeks.

Waterproofed Cement

Medusa Waterproofed Cement takes up water in mixing with some difficulty. Mix the waterproofed cement, sand and stone together dry and then add the water. A small amount of mechanical force will cause the water to be taken up. Add the water a little at a time to avoid separation of the fine particles of waterproofing.

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